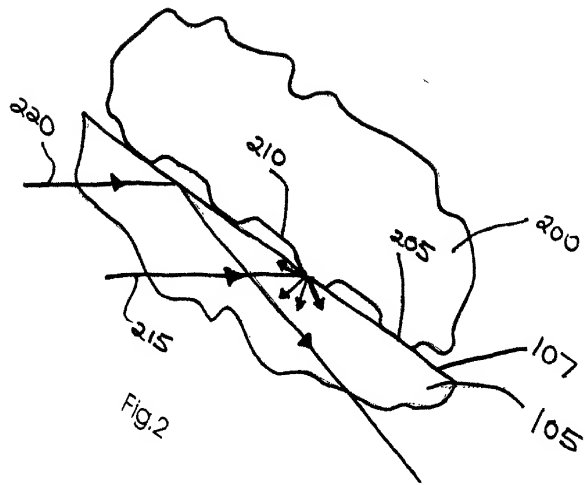
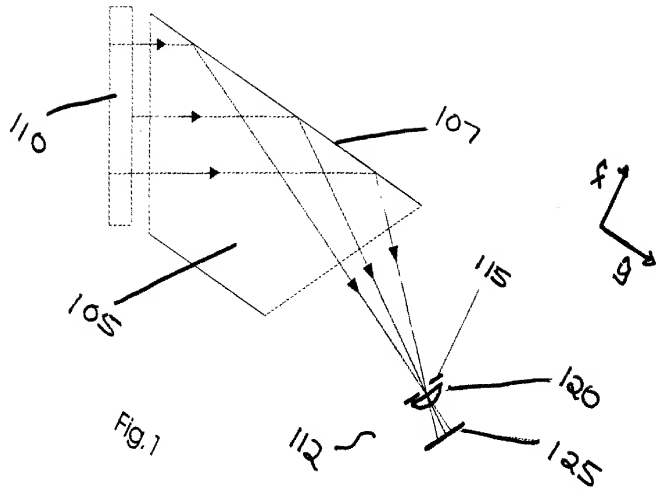


100

FIG. 1 is a schematic diagram of a system 100 for measuring a distance to a target 120. The system 100 includes a light source 105, a lens 107, and a detector 110. The light source 105 emits a beam of light 112 through the lens 107 towards the target 120. The target 120 reflects the light back towards the detector 110. The distance between the light source 105 and the target 120 is denoted by the variable d . The distance between the lens 107 and the target 120 is denoted by the variable f . The distance between the light source 105 and the lens 107 is denoted by the variable g .



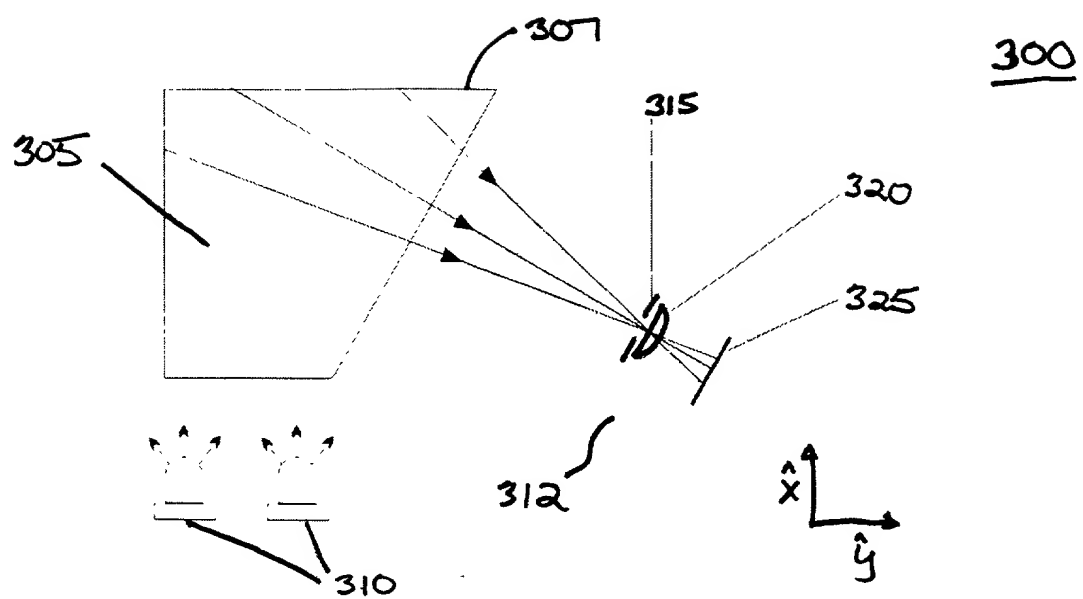


Fig.3

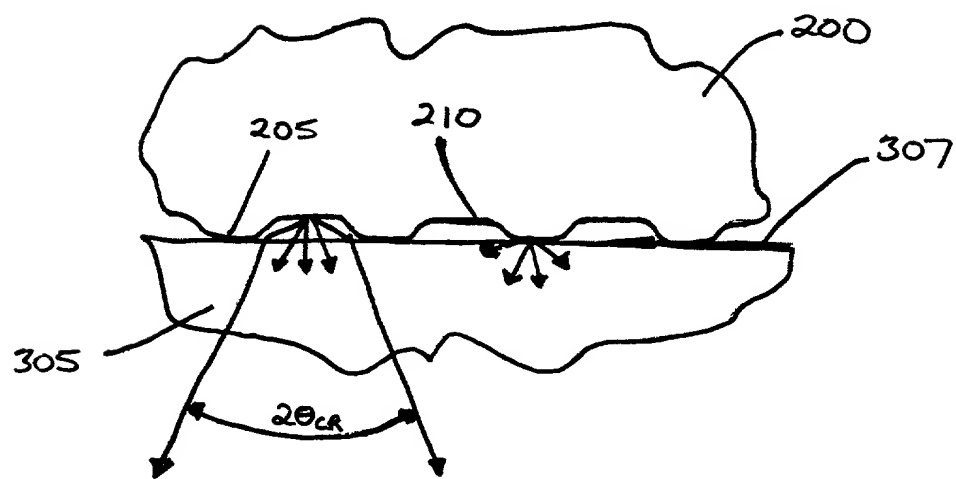


Fig.4

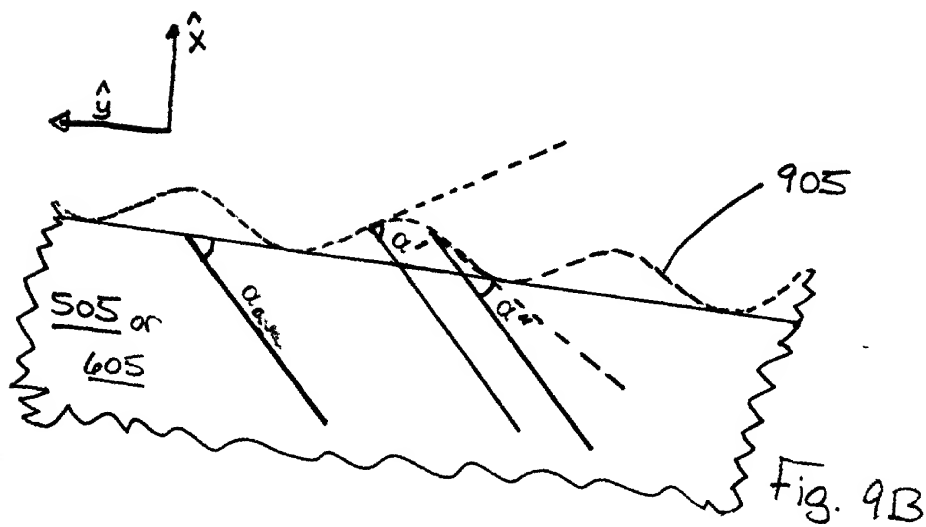
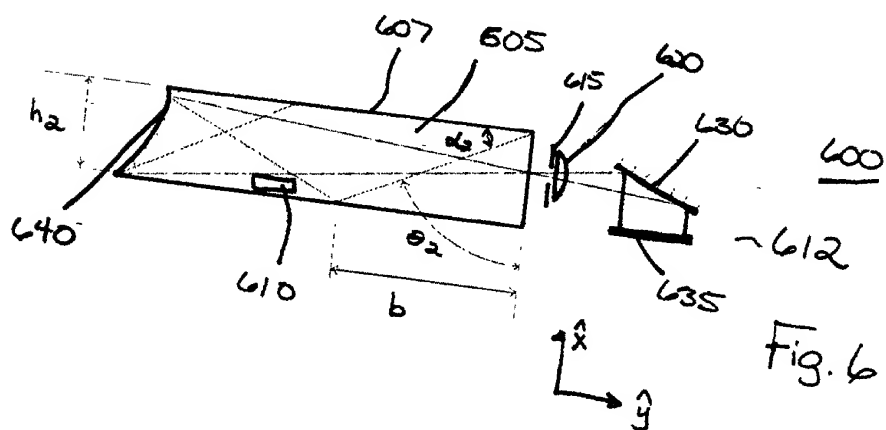
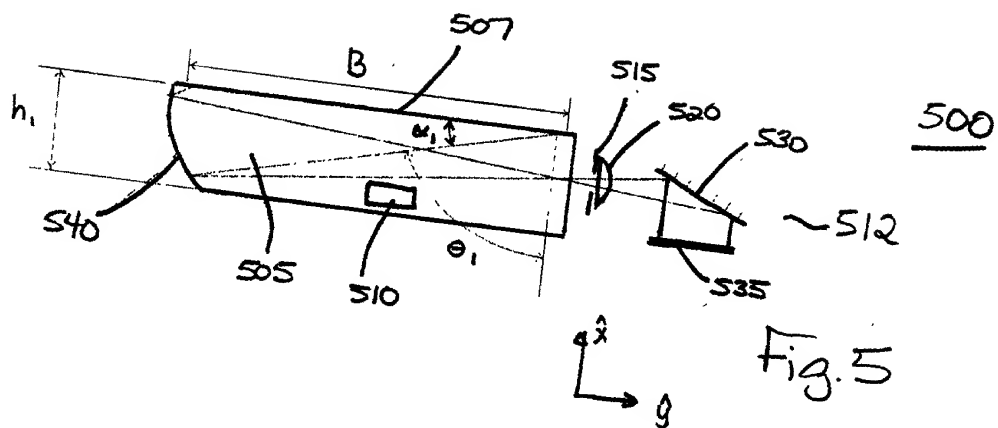


FIG. 5

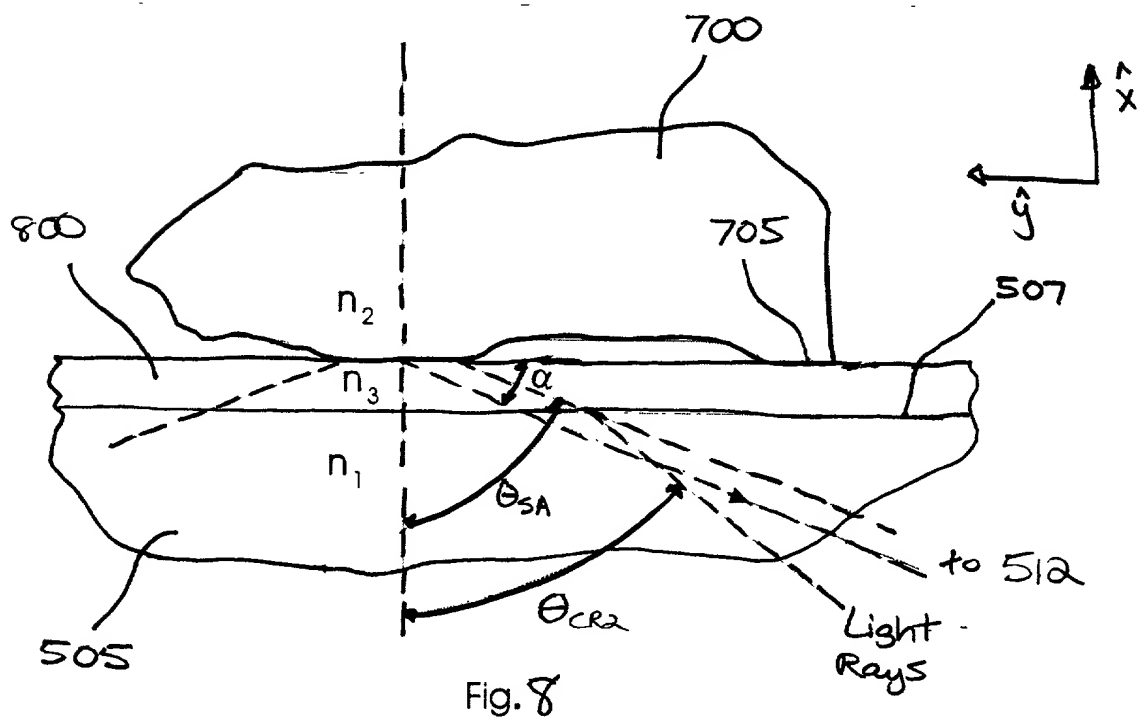
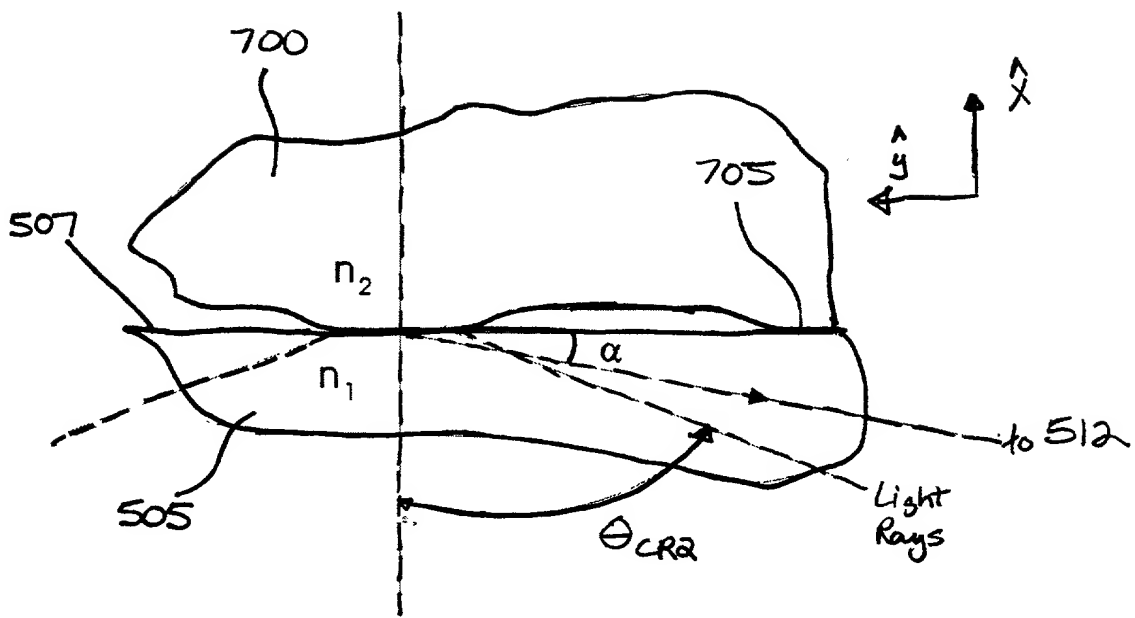
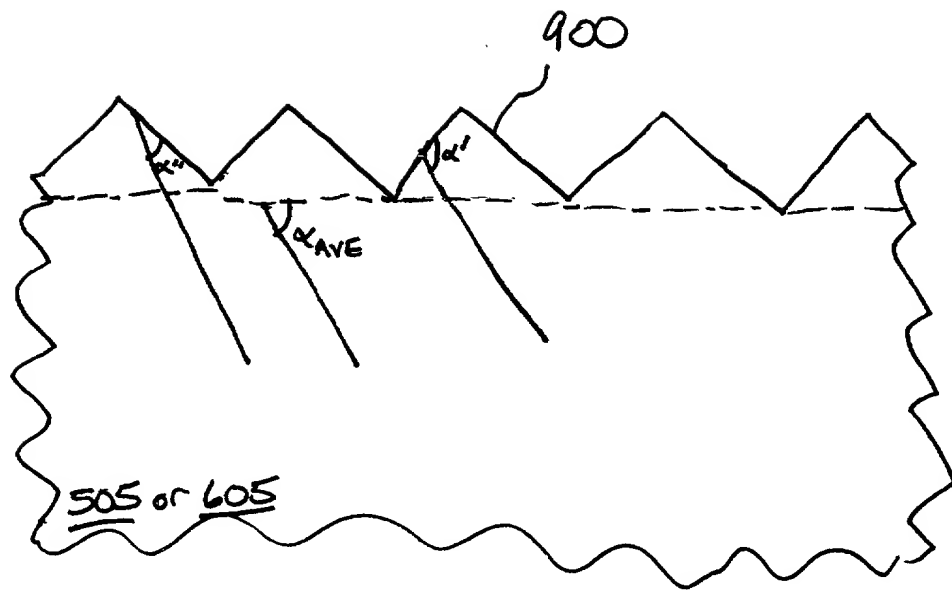
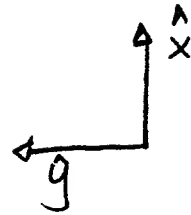
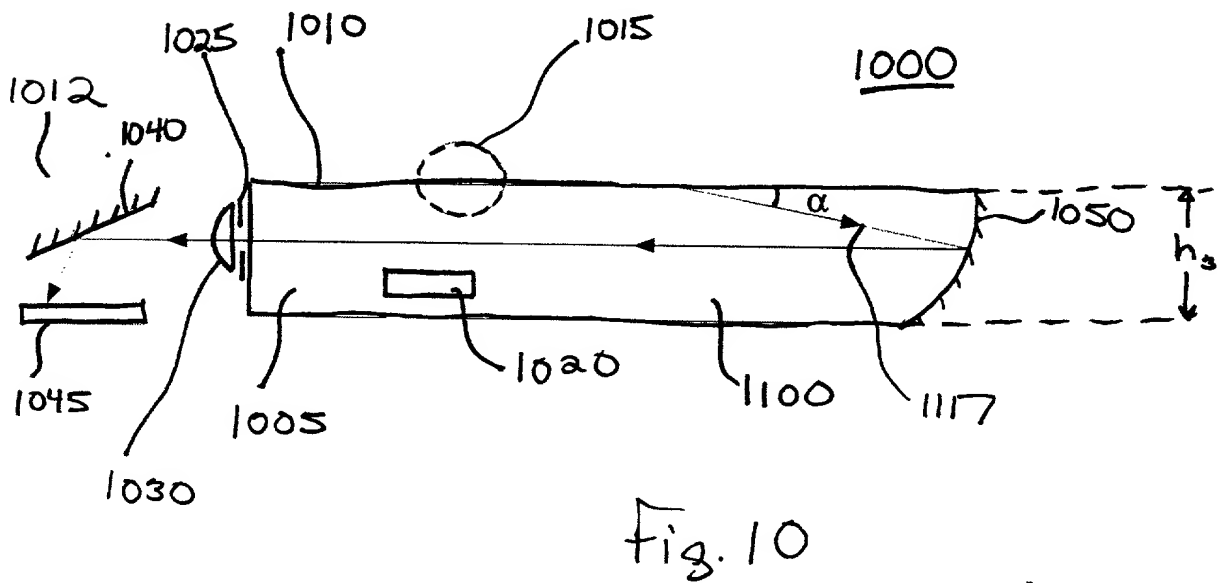
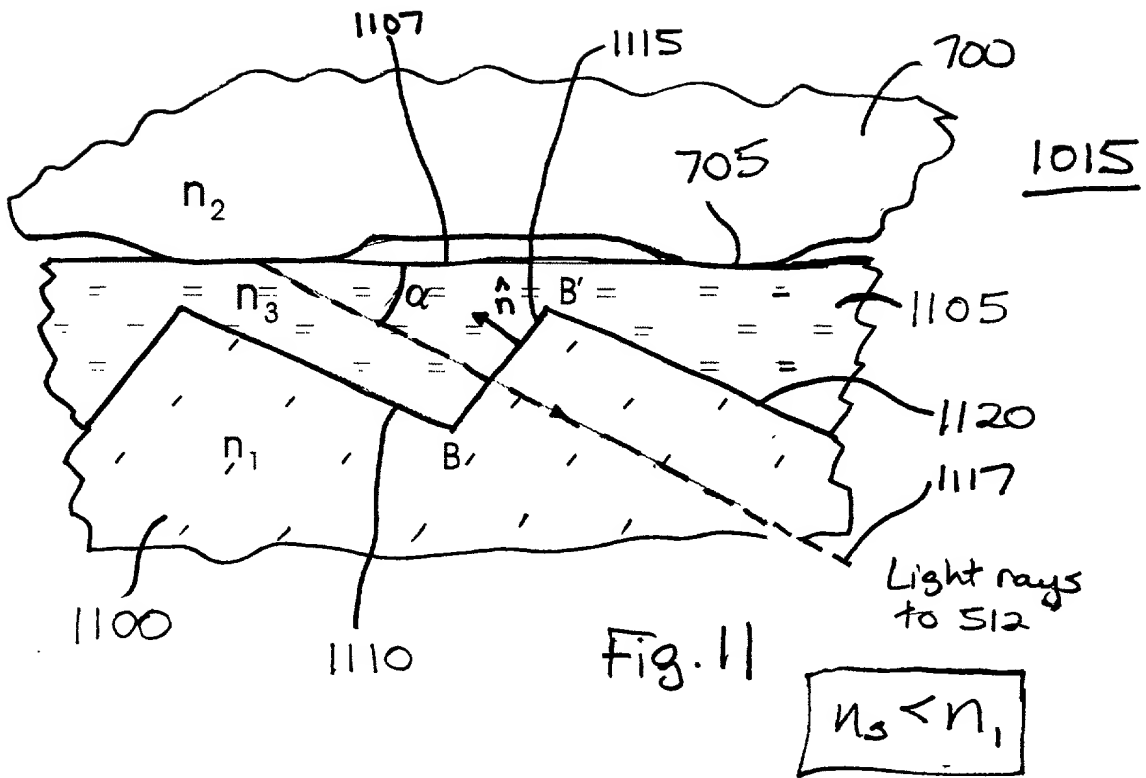
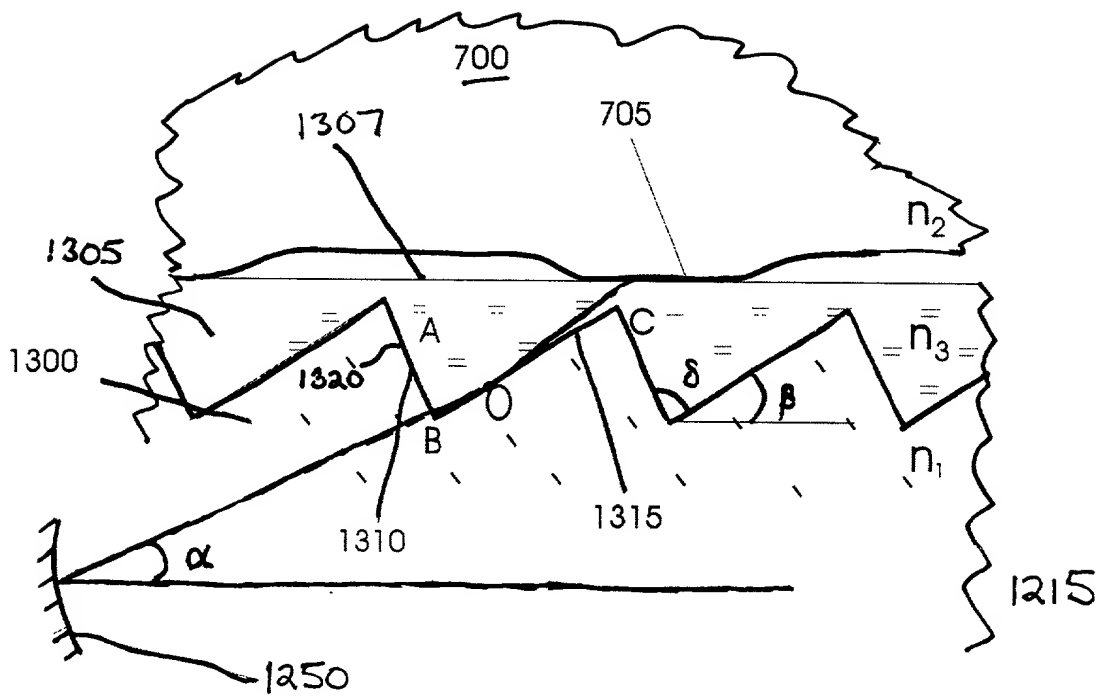


Fig. 9A







$$n_3 > n_1$$

Fig. 13

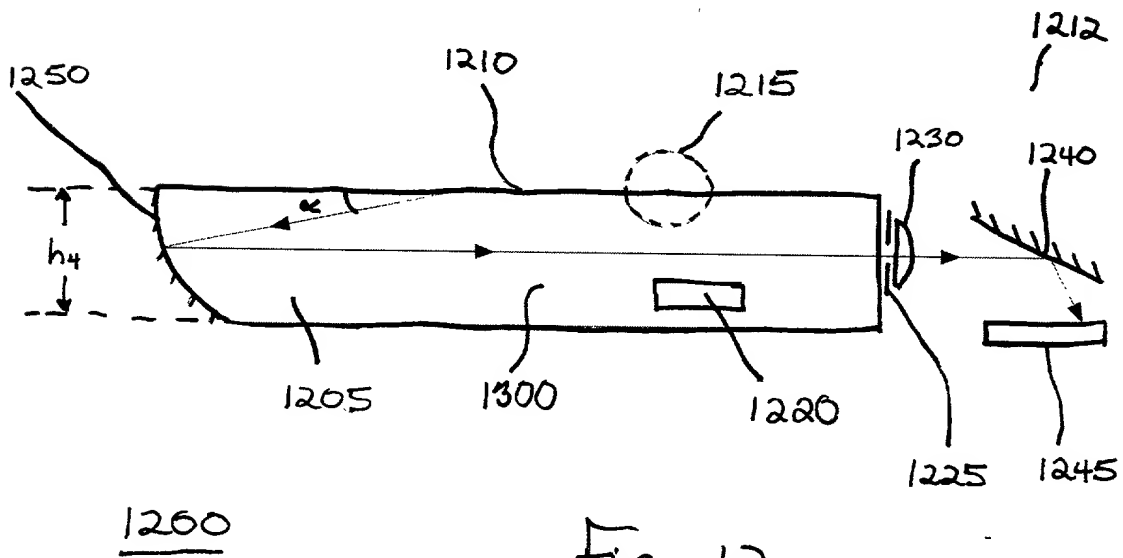


Fig. 12

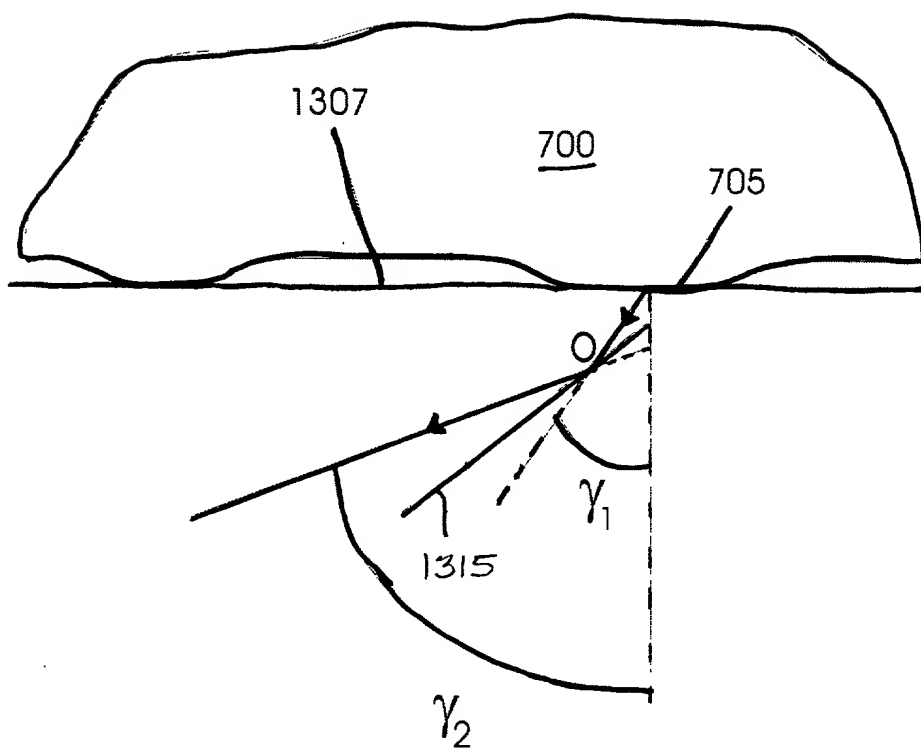


Fig. 14